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Scientific and Technical Information Center

CRFE

SEARCH REQUEST FORM

Requester's Full Name: TERRA GIBBS Examiner #: 79523 Date: 5/16/05  
Art Unit: 1635 Phone Number: 2-0758 Serial Number: 10/005,337  
Location (Bldg/Room#): 2D10 (Mailbox #): 2018 Results Format Preferred (circle): PAPER DISK  
\*\*\*\*\*  
Remsen

To ensure an efficient and quality search, please attach a copy of the cover sheet, claims, and abstract or fill out the following: ME

Title of Invention: \_\_\_\_\_

Inventors (please provide full names): \_\_\_\_\_

Earliest Priority Date: \_\_\_\_\_

Search Topic:

Please provide a detailed statement of the search topic, and describe as specifically as possible the subject matter to be searched. Include the elected species or structures, keywords, synonyms, acronyms, and registry numbers, and combine with the concept or utility of the invention. Define any terms that may have a special meaning. Give examples or relevant citations, authors, etc., if known.

\*For Sequence Searches Only\* Please include all pertinent information (parent, child, divisional, or issued patent numbers) along with the appropriate serial number.

I am not sure if this can be done...

Attached as Exhibit B is a nucleotide sequence ~250 bp in length

Applicants have provided this BLAST search with a result of <sup>see Query<sup>1</sup></sup>  
comparison

completed  
5-25-05

Barb O'Brien  
22518

83% identity.

1. I need the same comparison with a result of 90% identity

with SEQ ID No: 2 (nucleobases 1715 - 2060) as Exhibit B shows  
↓ USSN 10/005,337

2. I also need the same comparison with a result of 93% identity  
with SEQ ID No: 1 NA - 2358 - this is confusing

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Terra,

Seq 1 has 100% local similarity with "Query 1".

Seq 1 is much longer than Query 1, so the overall query match is low & can't be improved significantly.

I tried 8 different sets of parameter changes (altering Gap penalty &/or Gap size penalty) to get the best match between Seq 2, nt 1715 - 3066 vs Query 1. The best I could come up with was 82.5% Best Local Similarity (green tab).

Please let me know if you have questions.

Barb

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OM nucleic - nucleic search, using sw model

Run on: May 25, 2005, 16:32:23 ; Search time 0.001 Seconds  
(without alignments)  
1589.292 Million cell updates/sec

Title: US-10-005-337A-1-COPY  
Perfect score: 2358  
Sequence: 1 ggaatccttcatgtttaaca.....cagtcggaggccaccattgg 2358

Scoring table: IDENTITY NUC  
Gapop 10.0 , Gapext 0.5

Searched: 1 seqs, 337 residues  
Total number of hits satisfying chosen parameters: 2

Minimum DB seq length: 0  
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

Database : new.seq:\*

Pred. No. is the number of results predicted by chance to have a  
score greater than or equal to the score of the result being printed,  
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	337	14.3	337	1	QUERY_1 Entered [bobyren
2	17.4	0.7	337	1	QUERY_1 Entered [bobyren

ALIGNMENTS

RESULT 1					
QUERY_1 ; Entered [bobyren 25-May-05 16:13]					
QUERY_1					
Query Match 14.3%; Score 337; DB 1; Length 337;					
Best Local Similarity 100.0%; Pred. No. 0;					
Matches 337; Conservative 0; Mismatches 0; Indels 0; Gaps 0;					
QY	1972	GCAATATTAAACAGGAGCTGTCCCTGGCTTCCGATACGTGGGATCGCATTTGCTG 2031			
DB	1	GCAATATTAAACAGGAGCTGTCCCTGGCTTCCGATACGTGGGATCGCATTTGCTG 60			
QY	2032	AGCGGTGTGGTCACTGCCAAAGAAATGACCCCTCTCACATTTCTTCTGATTCGCATACGC 2091			
DB	61	AGCGGTGTGGTCACTGCCAAAGAAATGACCCCTCTCACATTTCTTCTGATTCGCATACGC 120			
QY	2092	CGGGGCGACCTGTGATCTCCCTTGGGCTTCCGACACTAAAGTCTGGAATGAAATTT 2151			
DB	121	CGGGGCGACCTGTGATCTCCCTTGGGCTTCCGACACTAAAGTCTGGAATGAAATTT 180			
QY	2152	CACTTCCTCTGAATTTGGCCACTGTGGGGGAGGGGTGTGACTTGGCTTCCAGGCTGG 2211			
DB	181	CACTTCCTCTGAATTTGGCCACTGTGGGGGAGGGGTGTGACTTGGCTTCCAGGCTGG 240			
QY	2212	AAGATTATCTACCCAGCCCTAGCTATATAACGGGCTGGTGGAGGGGCTCCACAGGCG 2271			

Db	241	AAAGATTATCTACCCAGCCCTAGCTATATAACGGGCTGGTGGAGGGGCTCCACAGGCG 300			
QY	2272	CAGTTCACAGGGGTTTCATCCACAGAGAGAGAAAAACATA 2308			
Db	301	CAGTTCACAGGGGTTTCATCCACAGAGAGAGAAAAACATA 337			

RESULT 2  
QUERY\_1/c  
; Entered [bobyren 25-May-05 16:13]  
QUERY\_1

Query Match 0.7%; Score 17.4; DB 1; Length 337;  
Best Local Similarity 53.7%; Pred. No. 0;  
Matches 36; Conservative 0; Mismatches 31; Indels 0; Gaps 0;  
QY 1709 CAGGGCCATTTAGCTGCAGACATCACTCCAGAGATTTCCAAACAGATAGACAAGTGG 1768  
DB 186 CAGGTGAATTTTCATTCCAGACTTAGTGTCTGGGAAGCCCAAGAGGGAGATGACAAGCTG 127  
QY 1769 CACCCAG 1775  
DB 126 GCCGCGG 120

Search completed: May 25, 2005, 16:32:23  
Job time : 0.001 secs

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OM nucleic - nucleic search, using sw model

Run on: May 25, 2005, 16:32:23 ; Search time 0.001 Seconds  
(without alignments)  
233.204 Million cell updates/sec

Title: US-10-005-337A-2\_1715-2060  
Perfect score: 346  
Sequence: 1 gcaatgtcaacagacagctg.....cgacagaaaaacatacaaga 346

Scoring table: IDENTITY NUC  
Gapop 10.0 , Gapext 0.5

Searched: 1 seqs, 337 residues

Total number of hits satisfying chosen parameters: 2

Minimum DB seq length: 0  
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

Database : new.seq:\*

Pred. No. is the number of results predicted by chance to have a  
score greater than or equal to the score of the result being printed,  
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	198.2	57.3	337	1	QUERY_1 Entered [bobyren
2	12.8	3.7	337	1	QUERY_1 Entered [bobyren

ALIGNMENTS



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OM nucleic - nucleic search, using sw model

Run on: May 25, 2005, 16:34:51 ; Search time 0.872041 Seconds  
(without alignments)  
1.822 Million cell updates/sec

Title: US-10-005-337A-1-COPY  
Perfect score: 2358  
Sequence: 1 ggaatcctttcatgtttaaca.....caggtcggaggccaccattgg 2358

Scoring table: IDENTITY NUC  
Gapop 10.0 , Gapext 0.0

Searched: 1 seqs, 337 residues

Total number of hits satisfying chosen parameters: 2

Minimum DB seq length: 0  
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

Database : new.seq.\*

Pred. No. is the number of results predicted by chance to have a  
score greater than or equal to the score of the result being printed,  
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Match	Length	ID	Description
1	337	14.3	337	1	QUERY_1
2	21.4	0.9	337	1	QUERY_1

ALIGNMENTS

RESULT 1					
QUERY_1					
; Entered [bobryen 25-May-05 16:13]					
QUERY_1					
Query Match 14.3%; Score 337; DB 1; Length 337;					
Best Local Similarity 100.0%; Pred. No. 0;					
Matches 337; Conservative 0; Mismatches 0; Indels 0; Gaps 0;					
QY	1972	GCAATATTAAACAGGAGCTGTCCTCGCTCCCGATACGTCGGATGACTCGCATTTGCTG	2031		
DB	1	GCAATATTAAACAGGAGCTGTCCTCGCTCCCGATACGTCGGATGACTCGCATTTGCTG	60		
QY	2032	ACGGTGTGGTCACTGCCAAAGAAATGACCCCTCAATTTCTTCTGATTCGCATACGC	2091		
DB	61	AGCGGTGTGGTCACTGCCAAAGAAATGACCCCTCAATTTCTTCTGATTCGCATACGC	120		
QY	2092	CGCGGCCAGCTTGTCACTCCCTCTGGGCTCCGACACTAAGTCTGGAATGAAATT	2151		
DB	121	CGCGGCCAGCTTGTCACTCCCTCTGGGCTCCGACACTAAGTCTGGAATGAAATT	180		
QY	2152	CACCTGCCCTCTGAATGGCCACTGTGGGGGAGGGGTGTGACTTGGCTTCCAGGCTGG	2211		
DB	181	CACCTGCCCTCTGAATGGCCACTGTGGGGGAGGGGTGTGACTTGGCTTCCAGGCTGG	240		
QY	2212	AAAGATTATCTACCCAGCCCTAGCTATATATAACGGGCTGGTGTGGAGGGGCTCCACAGGGC	2271		

Db	241	AAAGATTATCTACCCAGCCCTAGCTATATATAACGGGCTGGTGTGGAGGGGCTCCACAGGC	300		
QY	2272	CAGTTCCAGGGGTTCATCCACAAGAGAGAAAAACATA	2308		
Db	301	CAGTTCCAGGGGTTCATCCACAAGAGAGAAAAACATA	337		
RESULT 2					
QUERY_1/c					
; Entered [bobryen 25-May-05 16:13]					
QUERY_1					
Query Match 0.9%; Score 21.4; DB 1; Length 337;					
Best Local Similarity 10.8%; Pred. No. 0;					
Matches 162; Conservative 0; Mismatches 151; Indels 1186; Gaps 5;					
QY	551	TCTTATGGTGGAGCCAGACCATCGTGGTGGAGGAGAGCGCAACCTCACCCTCTAG	610		
DB	325	TCTTGGATGAACCCCTGGAACCTGGCCCTGGAGCCCTCCACACACCGCCGTTATAT	266		
QY	611	CTCTGCATCCATAGCAAGTAGCCTAATGTTCTGTCTGTAGGTGTCTCTGTGAATCG	670		
DB	265	AGCTAGGGCTGGTGAGATATCT	242		
QY	671	AGATCCTTGGCCTTGTGTAATTAGGGAGGCACAAATACTCAGAGATTCAAGACTGCTC	730		
DB	241		242		
QY	731	AGCAGCCAGAGTCTCTCTCAAGGAAGGTCTCACTCTCAGCCCTCTAGCTCTGA	790		
DB	241	TCCAGCCTGGGAAGCCAAAGTCACACCCCTGCCCCACACAGTGGCC	197		
QY	791	GTGAGCCTGGAAACAAACGCGCACAGGAATGAGAAAGCTGCCATAGCTGTGTCACTT	850		
DB	196	AATTCAGAGGCGGTGAATTTTCATTCAGACTTAGTGTCTGGGAGCC	148		
QY	851	CAAGAGGTCAAGAAATAAGTGTAAACCATGAAAAACGAGAAGACCAACAGTTATCATTTG	910		
DB	147	CAAGAGGAGATGACAA	131		
QY	911	ATAGCTCTCAGGACAGATAGGACAGAGAGAACACTAGGAGAGGGGACCCAGGAGGAC	970		
DB	130		131		
QY	971	AAGGTATTAGTGTGTGTTTTTCAGGGCAATGCTGTGTACTGAAGATTCTAGAAACACAA	1030		
DB	130		131		
QY	1031	TTTGTGTTGAACAGCTGAAGTGGGTGGGGTTCCTTACCCTATGTTTCATGGAAGGTG	1090		
DB	130		131		
QY	1091	AGTGGAGAGACAGATATATATGTCGCCAGCATAAACAACATACACACCCTAATTAA	1150		
DB	130		131		
QY	1151	CACCTCCCTCTTCTACTGACACCCCTTCACCTCTCTCTTTTCATAAAAAATAAAAAAGT	1210		
DB	130		131		
QY	1211	ATTTTATGTGGCTTTACGATAGAATCTTTCTCGAATATAAAAAAGATCTAAATATTTA	1270		
DB	130		131		
QY	1271	TATTTTTCATTTTAAATATCTTAGGATGACAAGCCAGAAACAAGATTTTTTGCCTCT	1330		
DB	130		131		
QY	1331	CTCAACAGCAAGCTTGGGCTTTTGTTCCTGGTGTAGGAATAGAACACGAGAGCCCC	1390		
DB	130	GCTGGCCGCGGCGGTATCGGAATCAGGA	101		

QY 1391 GTGTATCTAGGCAGATGCTCTATCATTTAGCCCATGAGTCTCCAGCCTCAGACGCACATTT 1450  
Db 100 ----- 101  
QY 1451 TTCTCGGGCTCTCTTAAGCTTTTCCACAGCATTTGGGAAACTTTACTGACAGCATCCAAG 1510  
Db 100 ----- 101  
QY 1511 TTGTGCTTCTGCTAAGAACTGGACTCACATCTCTCTGTGTCATCACTTCGGCCCGTTTTGG 1570  
Db 100 ----- 101  
QY 1571 GGTAGATCTCTGATTAGCCTTCAGATTTAGAACAGGTGAGCCTGTGTGCACTAATTA 1630  
Db 100 ----- 101  
QY 1631 TGGCCAGTGACACCATAGAGTCAAGTGCATTTACTGAATGCTTTCAATTTCTCTAATGC 1690  
Db 100 ----- 101  
QY 1691 TGGTACGATGGCATGTCAAGGGCCATTTTAGCTGCAGACATCACTCCAGAGAAATCCAA 1750  
Db 100 ----- 64  
QY 1751 ACAGATAGACAAAGTGGCACCAGACCCCATCTCTTCCCTCGGCTGATTATCCCCAG 1810  
Db 63 ----- 64  
QY 1811 AAATAGATGTCCAAAGCAACACTTCCAGCCAACTGGAGTGTGATAAGTCCAGTTAT 1870  
Db 63 ----- 64  
QY 1871 CAGAAAGATATGGCTGTAACTGTGATGACAGTGTTCGATTTTCTGTATACGTTAGTCA 1930  
Db 63 ----- 64  
QY 1931 TATGAGAGCTGACAAAGAGAAAGAGCAGCGATGTGTGCAATATTAAACAGGCAGCT 1990  
Db 63 ----- 64  
QY 1991 GTCCCCGTGCTCCGATAGTGGGATGACTCGCATTTGCTGAGCGGTGTGTCACCTGCC 2049  
Db 63 ----- 13

Search completed: May 25, 2005, 16:34:53  
Job time : 1.87204 secs

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OM nucleic - nucleic search, using sw model

Run on: May 25, 2005, 16:34:51 ; Search time 0.127959 Seconds  
(without alignments)  
1.822 Million cell updates/sec

Title: US-10-005-337A-2\_1715-2060  
Perfect score: 346  
Sequence: 1 gcaatgtcaacagacagctg.....cgacagaaaaacatacaaga 346

Scoring table: IDENTITY\_NUC  
Gapop 10.0 , Gapext 0.0

Searched: 1 segs, 337 residues

Total number of hits satisfying chosen parameters: 2

Minimum DB seq length: 0  
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%  
Listing first 45 summaries

Database : new.seq:\*

pred. No. is the number of results predicted by chance to have a  
score greater than or equal to the score of the result being printed,  
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Match	Length	ID	Description
1	202.2	58.4	337	1	QUERY_1
2	15	4.3	337	1	QUERY_1

ALIGNMENTS

RESULT 1  
QUERY\_1  
; Entered [bobryen 25-May-05 16:13]

Query Match 58.4%; Score 202.2; DB 1; Length 337;  
Best Local Similarity 80.8%; Pred. No. 0;  
Matches 277; Conservative 0; Mismatches 58; Indels 8; Gaps 4;  
QY 1 GCAATGTCAACAGACAGCTGTCCCTGAC-TCTTGACAAATAGGATGACTTGCAATTGCTG 59  
Db 1 GCATATTACAGGAGCTGTCCCTGGCTCCGATACGTGGGATGACTCGCATTTGCTG 60  
QY 60 AGCGATGTGATCACCAAGGAATGGCCCTCTCATATTTCTCTGATTCATATTC 119  
Db 61 AGCGGTGTGTCACTGCAAAAGGAATGACCTCTCATATTTCTCTGATTTCGATACGC 120  
QY 120 AGCAGGGTAGTGTGCTCCCTCCCTTCCAGCTTCCAGACACTGAGTCTGGAATGA 179  
Db 121 CGCGG-----CCAGCTGTGATCTCCCTCTTGGGCTTCCAGACACTAAGTCTGGGAATGA 175  
QY 180 AAATTCACCTGCTCTGAGTTGGCTCTTAATGGGGCGGAGGTGTACTTTCCGTTCCCG 239  
Db 176 AAATTCACCTGCTCTGAAATGGCCACTGGTGGGGCAGGGGTGTACTTTGGCTTCCCG 235  
QY 240 GTTGAAGATTATCTCACCGGCCCCAGCTGATATAAGCTGACCCGTTGGAGGGGCCCG 299  
Db 236 GCTGAAGATTATCTCACCGCAGCCCTAGCTATATAA-CGGGCTGGTGTGGAGGGGCTCCA 294  
QY 300 CAGGCGCACTCCAGGGATTCTTC-CACGACAGAAAAACATA 341  
Db 295 CAGGCGCAGTTCAGGGGTTTCATCCACAGAGAGAAAAACATA 337

RESULT 2  
QUERY\_1/c  
; Entered [bobryen 25-May-05 16:13]

Query Match 4.3%; Score 15; DB 1; Length 337;  
Best Local Similarity 26.7%; Pred. No. 0;  
Matches 62; Conservative 0; Mismatches 45; Indels 125; Gaps 2;  
QY 85 TGGCCCTCTCACATTTCTCTGATTCACATATTACAGAGGGTTAGTTGCTCTCCCTC 144  
Db 294 TGGAGCCCTCCACACAGCCCGTTATATAGCTAGGCTGGGTGAGATAATCTTCC 239  
QY 145 CCTCTTCAGTTCCCGACACACTGAGTCTGGAATGAAATTCACCTGCTCTGAGTTGGCT 204  
Db 238 -----AGCCTGGGAAGCAAGTCACACCCCT 213  
QY 205 CCTAATGGGGCGGAGTGTACTTCCGTTCCAGGTTGGAAGATTATATCACCAGGCC 264

Db 212 ----- 213  
Qy 265 CAGCTATATAAGCTGACCGGTGTGGAGGGCCCGCAGCGGCCCAACTCCAGGG 316  
Db 212 -----GCCCCACCAGTGGCCCAATTCAGAG 188

Search completed: May 25, 2005, 16:34:53  
Job time : 0.127959 secs

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OM nucleic - nucleic search, using sw model

Run on: May 25, 2005, 16:35:35 ; Search time 0.001 Seconds  
(without alignments)  
1589.292 Million cell updates/sec

Title: US-10-005-337A-1-COPY  
Perfect score: 2358  
Sequence: 1 ggaatccttcatgtttaaca.....cagtcgaggccaccattgg 2358

Scoring table: IDENTITY\_NUC  
Gapop 1.0 , Gapext 1.0

Searched: 1 seqs, 337 residues

Total number of hits satisfying chosen parameters: 2

Minimum DB seq length: 0  
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

Database : new.seq.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Match	Length	ID	Description
1	337	14.3	337	1 QUERY_1	Entered [bobryen
2	40.8	1.7	337	1 QUERY_1	Entered [bobryen

ALIGNMENTS

RESULT 1  
QUERY\_1  
; Entered [bobryen 25-May-05 16:13]  
QUERY\_1

Query Match	14.3%;	Score 337;	DB 1;	Length 337;
Best Local Similarity	100.0%;	Pred. No. 0;	Mismatches 0;	Indels 0;
Matches 337;	Conservative 0;	Gapop 1.0;	Gapext 1.0;	Gaps 0;
QY	1972	GCAATATTAAACAGGAGCTGTCCCTGGCTTCCGATACGTGGGATGACTCGCATTTGCTG	2031	
DB	1	GCAATATTAAACAGGAGCTGTCCCTGGCTTCCGATACGTGGGATGACTCGCATTTGCTG	60	
QY	2032	ACGGGTGTGGTCACTGCCAAAGGAATGACCCCTCTCACATTTCTTCTGATTCGCATAGCG	2091	
DB	61	ACGGGTGTGGTCACTGCCAAAGGAATGACCCCTCTCACATTTCTTCTGATTCGCATAGCG	120	
QY	2092	CCGGCCAGCTGTGATCTCCCTTGGGCTTCCGACACACTAAGTCTGGAATGAAATT	2151	
DB	121	CCGGCCAGCTGTGATCTCCCTTGGGCTTCCGACACACTAAGTCTGGAATGAAATT	180	
QY	2152	CACCTGCTCTCAATTTGGCCACTGTGGGGGAGGGGTGTGACTTGGCTTCCAGGCTGG	2211	
DB	181	CACCTGCTCTCAATTTGGCCACTGTGGGGGAGGGGTGTGACTTGGCTTCCAGGCTGG	240	
QY	2212	AAAGATTATCTACCCAGCCCTAGCTATATATAACGGGCTGGTGTGGAGGGGCTCCACAGGGC	2271	

Db	241	AAAGATTATCTACCCAGCCCTAGCTATATATAACGGGCTGGTGTGGAGGGGCTCCACAGGGC	300	
QY	2272	CAGTTCCAGGGGTTTCATCCACAAGAGAGAAAAACATA	2308	
DB	301	CAGTTCCAGGGGTTTCATCCACAAGAGAGAAAAACATA	337	

RESULT 2  
QUERY\_1/c  
; Entered [bobryen 25-May-05 16:13]  
QUERY\_1

Query Match	1.7%;	Score 40.8;	DB 1;	Length 337;
Best Local Similarity	53.8%;	Pred. No. 0;	Mismatches 107;	Indels 39;
Matches 170;	Conservative 0;	Gapop 1.0;	Gapext 1.0;	Gaps 26;
QY	2054	GAATGACCTCTCACATTTCTTCTGATTCGATACGGCGGCGGCGGCGGCTTCATCTCCC	2113	
DB	319	GGATGAACCCCTT-GGAACCTGGCCCTGTGGAGC-CCTCCAC-ACCAGCCGTTATAT--A	265	
QY	2114	TCTTGGGCT-TCCAGACA--CT--AAGTCTGGAATGAAATTCa----CCTG-CCTCTG	2163	
DB	264	GCTAGGGCTGGTGAGATAATCTTCCAGCTGGGAAGCAAGTCACACCCCTGCCCCAC	205	
QY	2164	AATGGCCACTGGTGGGGCAGGGGTGTGACTTGGCTTCCAGGCTCCAGGCTGGAAGATTCTCA	2223	
DB	204	CAGTGGCCAAT-TCAGAGGCAG---GTGAATTTTCATTCAGACT--TAG--TGCT-G	155	
QY	2224	CCAGGCC--TAGCTATATACGGGCTGTG-TGGAGG-GGCTCCACAGGGCCA-GTTCC	2278	
DB	154	GGAGCCCAAGAGGAGATGACAAGCTGGCCGCGGTATGCGAATCAGGAAGAATGTG	95	
QY	2279	AGGGGTTCATCCACAAGAGAG-AAAAACATAGACTCGAGTCTAGGGAGCTTGCATGCT	2337	
DB	94	AGAGGGTCATTTCTTGGCAGTGACCAACCG-CTC-AGCAAT-GCGAG--T-CAT-CCC	42	
QY	2338	GCAGGTC-GGAGGCCA 2352		
DB	41	ACGTATCGGAAGCCA 26		

Search completed: May 25, 2005, 16:35:35  
Job time : 0.001 secs

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OM nucleic - nucleic search, using sw model

Run on: May 25, 2005, 16:35:35 ; Search time 0.001 Seconds  
(without alignments)  
233.204 Million cell updates/sec

Title: US-10-005-337A-2\_1715-2060

Perfect score: 346

Sequence: 1 gcaatgtcaacagacagctg.....cgacagaaaaacatacaaga 346

Scoring table: IDENTITY\_NUC

Gapop 1.0 , Gapext 1.0

Searched: 1 seqs, 337 residues

Total number of hits satisfying chosen parameters: 2

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : new.seq:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Match	Length	DB ID	Description
1	238.8	69.0	337	1 QUERY_1	Entered [bobryen
2	36.8	10.6	337	1 QUERY_1	Entered [bobryen

ALIGNMENTS

RESULT 1

QUERY\_1

; Entered [bobryen 25-May-05 16:13]

QUERY\_1

Query Match	69.0%;	Score 238.8;	DB 1;	Length 337;
Best Local Similarity	82.5%;	Pred. No. 0;		
Matches	283;	Conservative	0;	Mismatches 52; Indels 8; Gaps 5;
QY	1	GCAATGTCAACAGACAGCTGTCCCTTGAC-TCTTGACAAATAGGATGACTTGGCAATGGCTG	59	
Db	1	GCAATATTAAACAGCAGCTGTCCCTGGCTTCCCGATACGTGGGATGACTGCGCAATGGCTG	60	
QY	60	AGCGATGTGATCACCAACCAAGGAAGTGGCCCTCTCACATTTCTTCTGATTCACATATTC	119	
Db	61	AGCGGTGTGGTCACTGCCAAAGGAAGTGGCCCTCTCACATTTCTTCTGATTCGCATACGC	120	
QY	120	AGCAGGGTTAGCTGTGCTCCCTCTTCCAGCTTCCAGACACTGAGTCTGGAATGA	179	
Db	121	CGC--GGCCAGCTTGTCAT---CTCCCTCTTGGGCTTCCAGACACTAAGTCTGGAATGA	175	
QY	180	AAATTACCTGCTCTGAGTTGGCTCTTAATGGGGGGGAGTGTTACTTGGTTCCCGAG	239	
Db	176	AAATTACCTGCTCTGAAATGGCCACTGGTGGGGGAGGGGTGACTTGGCTTCCCGAG	235	
QY	240	GTGGAAGATTATCTCACCGGCCCGAGCTATATAGCTGACCGGTGTGGAGGGGCCAG	299	
Db	236	GCTGGAAGATTATCTCACCGGCCCGAGCTATATAGCTGACCGGTGTGGAGGGGCCAG	294	
QY	300	CAGGGCCAACTCCAGGGATTCTTTC-CACGACAGAAAAACATA	341	
Db	295	CAGGGCCAGTTCCAGGGGTTTCACACACAGAGAGAAAAACATA	337	

RESULT 2

QUERY\_1/c

; Entered [bobryen 25-May-05 16:13]

QUERY\_1

Query Match	10.6%;	Score 36.8;	DB 1;	Length 337;
Best Local Similarity	55.3%;	Pred. No. 0;		
Matches	146;	Conservative	0;	Mismatches 82; Indels 36; Gaps 24;
QY	42	GGATGA---CTTGCAATGTGAGGATGT-GATCACCAACCAAGGAATGGCCCTCTCACA	97	
Db	319	GGATGAACCCCTGGAA--CTG-GCCCTGTGGAGCCCTTCCACACCA---GCCCGTTATA	267	
QY	98	TTTCT--TCCTGATTACATA---TT-CAGCAGGGTTAG-CTTGTC-CTCCCT-CCCTC	148	
Db	266	TACCTAGGGCTGGGTGAGATAATCTTCCAGCTGGGAGCCAGTCACACCCCTGCCCC	207	
QY	149	TTGAGTTCCAGACACTGAGTGTGGAAATGAAATTC--CTGCTCTGAGT-TGG--C	203	
Db	206	ACCAG-TGGCCA-ATTGAGAGGAGG--TGAATTTTCATTCAGACTTAGTGTCTGGAA	151	

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OM nucleic - nucleic search, using sw model

Run on: May 25, 2005, 16:36:21 ; Search time 0.872041 Seconds  
(without alignments)  
1.822 Million cell updates/sec

Title: US-10-005-337A-1-COPY  
Perfect score: 2358  
Sequence: 1 ggaatcctttcatgtttaaca.....cagtcgagaccaccattgg 2358

Scoring table: IDENTITY\_NUC  
Gapop 0.5 , Gapext 0.0

Searched: 1 seqs, 337 residues

Total number of hits satisfying chosen parameters: 2

Minimum DB seq length: 0  
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

Database : new.seq.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	337	14.3	337	1	QUERY_1
2	282.5	12.0	337	1	QUERY_1

ALIGNMENTS

RESULT 1					
QUERY_1					
; Entered [bobryen 25-May-05 16:13]					
QUERY_1					
Query Match 14.3%; Score 337; DB 1; Length 337;					
Best Local Similarity 100.0%; Pred. No. 0;					
Matches 337; Conservative 0; Mismatches 0; Indels 0; Gaps 0;					
QY	1972	GCAATATTAAACAGGAGCTGTCCTCGCTTCCGATAGCTGGGATGACTCGCAATTGCTG	2031		
DB	1	GCAATATTAAACAGGAGCTGTCCTCGCTTCCGATAGCTGGGATGACTCGCAATTGCTG	60		
QY	2032	ACGGTGTGGTCACTGCCAAAGAAATGACCCCTCTCACATTTCTTCTGATTCGCATAGCG	2091		
DB	61	ACGGTGTGGTCACTGCCAAAGAAATGACCCCTCTCACATTTCTTCTGATTCGCATAGCG	120		
QY	2092	CGCGGCCAGCTTGTCATCTCCCTCTTGGGCTTCCAGACACTAACTCGGAATGAAATT	2151		
DB	121	CGCGGCCAGCTTGTCATCTCCCTCTTGGGCTTCCAGACACTAACTCGGAATGAAATT	180		
QY	2152	CACCTGCTCTGAAATGGCCACTGTGGGGCAGGGGTGTGACTTGGCTTCCAGGCTGG	2211		
DB	181	CACCTGCTCTGAAATGGCCACTGTGGGGCAGGGGTGTGACTTGGCTTCCAGGCTGG	240		
QY	2212	AAGATTATCTACCCAGCCCTAGCTATATAACAGGGCTGGTGTGGAGGGGCTCCACAGGGC	2271		

DB	241	AAGATTATCTACCCAGCCCTAGCTATATAACAGGGCTGGTGTGGAGGGGCTCCACAGGC	300		
QY	2272	CAGTTCCAGGGTTCATCCACAAGAGAGAAAAACATA	2308		
DB	301	CAGTTCCAGGGTTCATCCACAAGAGAGAAAAACATA	337		
RESULT 2					
QUERY_1/c					
; Entered [bobryen 25-May-05 16:13]					
QUERY_1					
Query Match 12.0%; Score 282.5; DB 1; Length 337;					
Best Local Similarity 14.6%; Pred. No. 0;					
Matches 337; Conservative 0; Mismatches 0; Indels 1973; Gaps 109;					
QY	22	TATCAACCTTAACCCCAAGGGNACAGCCTGCTGACAGTGGCTTTGCCACCCATGATAC	81		
DB	337	TAT	335		
QY	82	TTCTAGTCTAGTCGGTTTGTGAAACTCAGCCCATCCCAACACTTCTGCAAGCCCATCC	141		
DB	334	-----GTTT-----TTC	327		
QY	142	TCTACAAGTGTCTCATTTGGGAATTTCTGAGACTTCTCTTTTCAGGATCAGCTGTCTA	201		
DB	326	-----CTC-TTG-----TGA-----TGA-----	314		
QY	202	GGGAGCAGTCTCAACCTGGGGGCTCGACCCCTTTGGGGGAATCAAGACCCCTTAC	261		
DB	313	-----ACCCCT-----GGAA-----	304		
QY	262	AGGGTCACATATCATCTATCTATGTCAGGTATTTACATTTACGATTTCGTAACAGTAG	321		
DB	303	-----CT-----	302		
QY	322	CAAAATTACAGGTATGAATAAGCAATGAATAAATTTATGATTGAAGGTCAACACAT	381		
DB	301	-----	302		
QY	382	GAGCGGCCACACTGTTCTAGAGAAAAATCACCTGGTGGGAAAGTTTGGAAAGCT	441		
DB	301	-----GGCC-----CTGT-----GG--AGCC--	288		
QY	442	TTCTGTCCATTTCTTCAATCTTCAAAAGTGATGTGTTTACAGAAAGCTTTTCAGCTGTCTG	501		
DB	287	-----CC-----TC-----CACA-----C-----CAGC-----C--	274		
QY	502	CTGGGCTCTTAGTAAAGTCTGAGTAGGAACGTGTATGTACCAGGTCTGCTTTTATGGGTG	561		
DB	273	C---G---TTA-TA-----TAG---CT-----AGG---GC-----TGGGTG	251		
QY	562	GAGCCAGACGATCGTGGTGGAGCGGAGAGCGAACCTCCTCTAGCTCTGCATCA	621		
DB	250	-----AGA-----T-----AA-----TCT---TCC--	239		
QY	622	TAGCAAGTAGCCTAATGTTTCTGTCTAGGTGTCTATCTCTGTGAATCGAGATCTTGGC	681		
DB	238	-----AGCC-----	232		
QY	682	CTTGCTTGAATTTAGGGAGGCACAAAATACTCAGAGATTCAAGACTGCTCAGCAGCCAGA	741		
DB	231	-----GAA-----GC-----CAAG-----TCA-CA-CCC---	215		
QY	742	GTCCTTCTCAAGGAAGGTCTCAACTCTAGCCCCCTTAGCTCTGAGTCAGGCTGG	801		
DB	214	-----CT--GCCCC--	207		
QY	802	AACAAACGCCACAGGAATGAGAAAAGCTGCCATAGCTGTTGTCTCACTTCAAGAGGTCAA	861		
DB	206	-----AC-----CAG---TG-----GCCA-----A-TTC-AGAGG-C--	186		



ALIGNMENTS

```
RESULT 1
QUERY_1
; Entered [bobryen 25-May-05 16:13]
QUERY_1

Query Match      75.9%; Score 262.5; DB 1; Length 337;
Best Local Similarity 79.9%; Pred. No. 0;
Matches 290; Conservative 0; Mismatches 25; Indels 48; Gaps 25;

QY 1 GCAATGTCACAGACAGCTGTCCCT-GACTCTT---GACAAATA-----GGATGACTTGC 52
Db 1 GCAATATTAAACAGGACAGCTGTCCCTGG---CTTCCCG---ATACGTGGGATGACTGCG 53

QY 53 ATTGCTGAGGATGTGATCAC--CACAAAGGAATGGCCCTCTCACATTTCTTCCTGATT 110
Db 54 ATTGCTGAGCGGTGTGGTCACTGC--CAAAGGAATGACCCCTCTCACATTTCTTCCTGATT 111

QY 111 CACATATTACAGCAG-GGTTAGCTTGTCTCCCTCCCTCTTCAG--CTTCCCAGACACTG 167
Db 112 CGGATA--C-GCCGCGCCAGCTTGTAT---CTCCCTCTT---GGCTTCCACACACTA 163

QY 168 AGTCTGGAATGAAATTCACCTGCTCTGAGTTGGCTC-CTAATGGGGG-CGGAGTGT 225
Db 164 AGTCTGGAATGAAATTCACCTGCTCTGAAATGGC-CACTGTGGGGGCGAGG-GTGTG 221

QY 226 ACTTCGG-TTCCAGAGTTGGAAGATTATCTCAGCCGCGCCAGCTATATAA---GCTGAC 281
Db 222 ACTT-GGCTTCCAGGCTGGAAGATTATCTCAGCCAGCCCTAGCTATATAAGCGGCT--- 277

QY 282 CGGTGTGGAGGGG-CACAGAGGGCCAACTCCAGGGAATTCCTTCCAC--GACAGAAAAAC 338
Db 278 -GGTGTGGAGGGGCTCCA-CAGGGCCAGTTCAGGGGTT-CATCCAAAGAGAGAAAAAC 334

QY 339 ATA 341
Db 335 ATA 337

RESULT 2
QUERY_1/c
; Entered [bobryen 25-May-05 16:13]
QUERY_1

Query Match      46.1%; Score 159.6; DB 1; Length 337;
Best Local Similarity 45.2%; Pred. No. 0;
Matches 208; Conservative 0; Mismatches 9; Indels 243; Gaps 86;

QY 4 ATG--TCAACAGACAGCTGTCCCTGACTCTTGACAAATAGGATGA--CTTGCAATTGCTG 59
Db 336 ATGTTT-----T-T---CT---CTCTTG-----T-GGATGAACC--C-----CTG 307

QY 60 AGCGA--TG-----TGATCACCACCAAGGAATGGCCCTCT-CACATTTCTTCTCTGA---- 108
Db 306 ---GAACGTGCCCTG-T-----GGA---GCCCTCCACCA-----CC--AGCCC 273

QY 109 -TTCACATATTGAGC-AGGGTTAGCT---TGTCCTCCCTCCCTCTTTCAG-----CTTCC 158
Db 272 GTT---ATAT--AGCTAGG---GCTGGGTG-----AGATAATCTT-C 240

QY 159 CAGACACTGAGTCTGGAATG--AA---AATTCA--CCTGC-----CTCTGAGTTGGCTCC 206
Db 239 CAG-C-CTG-----GGAA-GCCAAAGTCA---CACCCCTGCCCCAC-C--AG-TGG--CC 197

QY 207 TAAT---G-GGGGC-GG-GAGTGT-----ACTCG-GT-T-----CCC-AG-GT 241
Db 196 -AATTCAGAG--GCAGTGAAT-TTTCATTCAGACTTAGTGTCTGGGAAGCCCAAGAG- 142

QY 242 TGAAGATTATCTCA-----CC-CGGCCCGAGCTATATAAGCTGA--CCGG-----TG 286
Db 242 TGAAGATTATCTCA-----CC-CGGCCCGAGCTATATAAGCTGA--CCGG-----TG 286
```

```
Db 141 -GG-AGATGA---CAAGCTGGCCGCGGC-----G---TAT--GC-GAATCAGGAAGAAATG 97
QY 287 TG-GAGGGGC---CC---AGCAG-GGCCA-ACTC---CAG---G-GA-T--TCCTTTCCA 326
Db 96 TGAGAGGGTCAATTCCTTTGGCAGTGACACAC-CGCTCAGCAATGCGAGTCAATC---CCA 41
QY 327 CG-A-CAGAAA---A-----ACA-----TACA-A--G 345
Db 40 CGTATCGGAAGCCAGGGGACAGCTGCTGTGTTA-ATATTG 2

Search completed: May 25, 2005, 16:36:23
Job time : 0.127959 secs
```



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OM nucleic - nucleic search, using sw model

Run on: May 25, 2005, 16:37:10 ; Search time 0.872041 Seconds  
(without alignments)  
1.822 Million cell updates/sec

Title: US-10-005-337A-1-COPY  
Perfect score: 2358  
Sequence: 1 ggaatccttcatgtttaa.....cagtcgaggaccaccatgg 2358

Scoring table: IDENTITY\_NUC  
Gapop 20\_0 , Gapext 0.0

Searched: 1 seqs, 337 residues

Total number of hits satisfying chosen parameters: 2

Minimum DB seq length: 0  
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

Database : new.seq:\*

Pred. No. is the number of results predicted by chance to have a  
score greater than or equal to the score of the result being printed,  
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	337	14.3	337	1	QUERY_1 Entered [bobryen]
2	17.4	0.7	337	1	QUERY_1 Entered [bobryen]

ALIGNMENTS

RESULT 1					
QUERY_1 ; Entered [bobryen 25-May-05 16:13]					
QUERY_1					
Query Match 14.3% ; Score 337; DB 1; Length 337;					
Best Local Similarity 100.0% ; Pred. No. 0;					
Matches 337; Conservative 0; Mismatches 0; Indels 0; Gaps 0;					
QY	1972	GCATATTAAACAGGACGTGCTCCCTGGCTTCCGATAGCTGGGATGACTCGCATTTGCTG	2031		
DB	1	GCATATTAAACAGGACGTGCTCCCTGGCTTCCGATAGCTGGGATGACTCGCATTTGCTG	50		
QY	2032	ACGGGTGGTGCACGCCAAAGAAATGACCCCTCACAATTTCTTCTGATTCGCATACGC	2091		
DB	61	ACGGGTGGTGCACGCCAAAGAAATGACCCCTCACAATTTCTTCTGATTCGCATACGC	120		
QY	2092	CGCGGCCAGCTTGTCTATCTCCCTTGGCTTCCGACACTAAGTCTGGATGAAATT	2151		
DB	121	CGCGGCCAGCTTGTCTATCTCCCTTGGCTTCCGACACTAAGTCTGGATGAAATT	180		
QY	2152	CACCTGCCCTCTGAATGGCCACTGGTGGGGCAGGGGTGTGACTTGGCTTCCAGGCTGG	2211		
DB	181	CACCTGCCCTCTGAATGGCCACTGGTGGGGCAGGGGTGTGACTTGGCTTCCAGGCTGG	240		
QY	2212	AAAGATTATCTACCCAGCCCTAGCTATATAACGGGCTGGTGTGGAGGGGCTCCACAGGCG	2271		

Db	241	AAAGATTATCTACCCAGCCCTAGCTATATAACGGGCTGGTGTGGAGGGGCTCCACAGGCG	300		
QY	2272	CAGTTCAGGGGTTTCATCCACAAGAGAGAAAAACATA	2308		
DB	301	CAGTTCAGGGGTTTCATCCACAAGAGAGAAAAACATA	337		

RESULT 2  
QUERY\_1/c  
; Entered [bobryen 25-May-05 16:13]  
QUERY\_1

Query Match 0.7% ; Score 17.4; DB 1; Length 337;  
Best Local Similarity 53.7% ; Pred. No. 0;  
Matches 36; Conservative 0; Mismatches 31; Indels 0; Gaps 0;

QY	1709	CAGGGCCATTTAGCTGCAGACATCACTCCAGAGATTCCAAACAGATAGACAGTGG	1768		
DB	186	CAGGTGAATTTTCATTCCAGACTTAGTGTCTGGGAAGCCCAAGAGGGAGATGACAAAGCTG	127		
QY	1769	CACCCAG 1775			
DB	126	GCCGCG 120			

Search completed: May 25, 2005, 16:37:11  
Job time : 0.872041 secs

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OM nucleic - nucleic search, using sw model

Run on: May 25, 2005, 16:37:10 ; Search time 0.127959 Seconds  
(without alignments)  
1.822 Million cell updates/sec

Title: US-10-005-337A-2\_1715-2060  
Perfect score: 346  
Sequence: 1 gcaatgtcaacagacagctg.....cgacagaaaaacatacaaga 346

Scoring table: IDENTITY\_NUC  
Gapop 20\_0 , Gapext 0.0

Searched: 1 seqs, 337 residues

Total number of hits satisfying chosen parameters: 2

Minimum DB seq length: 0  
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

Database : new.seq:\*

Pred. No. is the number of results predicted by chance to have a  
score greater than or equal to the score of the result being printed,  
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	169.6	49.0	337	1	QUERY_1 Entered [bobryen]
2	12.8	3.7	337	1	QUERY_1 Entered [bobryen]

ALIGNMENTS



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OM nucleic - nucleic search, using sw model

Run on: May 25, 2005, 16:37:50 ; Search time 0.001 Seconds  
(without alignments)  
1589.292 Million cell updates/sec

Title: US-10-005-337A-1-COPY  
Perfect score: 2358  
Sequence: 1 ggaatccttcatgtttaaca.....cagtgaggccaccatgg 2358

Scoring table: IDENTITY\_NUC  
Gapop 60.0 , Gapext 0.0

Searched: 1 seqs, 337 residues

Total number of hits satisfying chosen parameters: 2

Minimum DB seq length: 0  
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

Database : new.seq:\*

Pred. No. is the number of results predicted by chance to have a  
score greater than or equal to the score of the result being printed,  
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	337	14.3	337	1 QUERY_1	Entered [bobryen
2	17.4	0.7	337	1 QUERY_1	Entered [bobryen

ALIGNMENTS

RESULT 1					
QUERY_1					
; Entered [bobryen 25-May-05 16:13]					
QUERY_1					
Query Match 14.3%; Score 337; DB 1; Length 337;					
Best Local Similarity 100.0%; Pred. No. 0;					
Matches 337; Conservative 0; Mismatches 0; Indels 0; Gaps 0;					
QY	1972	GCAATATTAAACAGGACGTCTCCCTGGCTTCCGATACGTGGGATCGCATTTGCTG	2031		
DB	1	GCAATATTAAACAGGACGTCTCCCTGGCTTCCGATACGTGGGATCGCATTTGCTG	60		
QY	2032	ACGGGTGGTCACTGCCAAAGAAATGACCTCTCAATTTCTTCTGATTCGCATACGC	2091		
DB	61	AGCGGTGGTCACTGCCAAAGAAATGACCTCTCAATTTCTTCTGATTCGCATACGC	120		
QY	2092	CGCGGCACGCTGTCACTCCCTTGGCTTCCGACACACTAAGTCTGGAATGAAATT	2151		
DB	121	CGCGGCACGCTGTCACTCCCTTGGCTTCCGACACACTAAGTCTGGAATGAAATT	180		
QY	2152	CACCTCCCTCTGAATTTGGCCACTGTGGGGGAGGGGTGTGACTTGGCTTCCAGGCTGG	2211		
DB	181	CACCTCCCTCTGAATTTGGCCACTGTGGGGGAGGGGTGTGACTTGGCTTCCAGGCTGG	240		
QY	2212	AAGATTATCTCACCCAGCCCTAGCTATATAACGGGCTGTGTGGAGGGGCTCCACAGGCG	2271		

Db	241	AAGATTATCTCACCCAGCCCTAGCTATATAACGGGCTGTGTGGAGGGGCTCCACAGGCG	300		
QY	2272	CAGTTCCAGGGGTTTCATCCACAAGAGAGAGAAAAACATA	2308		
DB	301	CAGTTCCAGGGGTTTCATCCACAAGAGAGAGAAAAACATA	337		

RESULT 2  
QUERY\_1/c  
; Entered [bobryen 25-May-05 16:13]  
QUERY\_1

Query Match 0.7%; Score 17.4; DB 1; Length 337;  
Best Local Similarity 53.7%; Pred. No. 0;  
Matches 36; Conservative 0; Mismatches 31; Indels 0; Gaps 0;

QY	1709	CAGGGCCATTTTAGCTGCAGACATCACTCCAGAGATTCCTCAACACATAGACACAAGTGG	1768		
DB	186	CAGGTGAATTTTTCATTTCCAGACTTAGTGTGGGAAGCCCAAGAGGGAGATGACAAGCTG	127		
QY	1769	CACCCAG 1775			
DB	126	GCGGCGG 120			

Search completed: May 25, 2005, 16:37:51  
Job time : 1 secs

GenCore version 5.1.1.6  
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OM nucleic - nucleic search, using sw model

Run on: May 25, 2005, 16:37:50 ; Search time 0.001 Seconds  
(without alignments)  
233.204 Million cell updates/sec

Title: US-10-005-337A-2 1715-2060  
Perfect score: 346  
Sequence: 1 gcaatgcaacagacagctg.....cgacagaaaaacatacaaga 346

Scoring table: IDENTITY\_NUC  
Gapop 60.0 , Gapext 0.0

Searched: 1 seqs, 337 residues

Total number of hits satisfying chosen parameters: 2

Minimum DB seq length: 0  
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

Database : new.seq:\*

Pred. No. is the number of results predicted by chance to have a  
score greater than or equal to the score of the result being printed,  
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	128.6	37.2	337	1 QUERY_1	Entered [bobryen
2	12.8	3.7	337	1 QUERY_1	Entered [bobryen

ALIGNMENTS



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OM nucleic - nucleic search, using sw model

Run on: May 25, 2005, 16:38:25 ; Search time 0.872041 Seconds  
(without alignments)  
1.822 Million cell updates/sec

Title: US-10-005-337A-1-COPY  
Perfect score: 2358  
Sequence: 1 ggaatccttcatgtttaaca.....cagtcggaggccaccattgg 2358

Scoring table: IDENTITY\_NUC  
Gapop 60.0 , Gapext 60.0

Searched: 1 seqs, 337 residues  
Total number of hits satisfying chosen parameters: 2

Minimum DB seq length: 0  
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

Database : new.seq:  
Pred. No. is the number of results predicted by chance to have a  
score greater than or equal to the score of the result being printed,  
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	337	14.3	337	1	QUERY_1 Entered [bobryen
2	17.4	0.7	337	1	QUERY_1 Entered [bobryen

ALIGNMENTS

RESULT 1					
QUERY_1					
; Entered [bobryen 25-May-05 16:13]					
QUERY_1					
Query Match 14.3%; Score 337; DB 1; Length 337;					
Best Local Similarity 100.0%; Pred. No. 0;					
Matches 337; Conservative 0; Mismatches 0; Indels 0; Gaps 0;					
QY	1972	GCAATATTACAGGAGCTGCCCTGGCTTCCGATACGTGGGATGACTCGCATTCGTG	2031		
DB	1	GCAATATTACAGGAGCTGCCCTGGCTTCCGATACGTGGGATGACTCGCATTCGTG	60		
QY	2032	AGCGGTGTGTCATCCCAAGGAATGACCCCTCTCAATTTCTCTGATTCGCATACGC	2091		
DB	61	AGCGGTGTGTCATCCCAAGGAATGACCCCTCTCAATTTCTCTGATTCGCATACGC	120		
QY	2092	CGCGGCACGTTGTATCTCCCTTTGGGCTTCCGACACTAAGTCTGGAATGAAAT	2151		
DB	121	CGCGGCACGTTGTATCTCCCTTTGGGCTTCCGACACTAAGTCTGGAATGAAAT	180		
QY	2152	CACCTCCCTCTGAATGGCCACTGGTGGGGCAGGGGTGTGACTTGGCTTCCAGGCTGG	2211		
DB	181	CACCTCCCTCTGAATGGCCACTGGTGGGGCAGGGGTGTGACTTGGCTTCCAGGCTGG	240		
QY	2212	AAGATTATCTACCCAGCCCTAGCTATATAACGGGCTGGTGGAGGGGCTCCACAGGGC	2271		

Db	241	AAGATTATCTACCCAGCCCTAGCTATATAACGGGCTGGTGGAGGGGCTCCACAGGGC	300		
QY	2272	CAGTTCCAGGGGTTTCATCCACAAGAGAGAAAAACATA	2308		
DB	301	CAGTTCCAGGGGTTTCATCCACAAGAGAGAAAAACATA	337		

RESULT 2  
QUERY\_1/c  
; Entered [bobryen 25-May-05 16:13]  
QUERY\_1

Query Match 0.7%; Score 17.4; DB 1; Length 337;  
Best Local Similarity 53.7%; Pred. No. 0;  
Matches 36; Conservative 0; Mismatches 31; Indels 0; Gaps 0;  
QY 1709 CAGGGCCATTTAGTGCAGACATCACTCCAGAGATTCCAAACAGATAGACAAAGTGG 1768  
DB 186 CAGGTGAATTTTCATTCAGACTTAGTGTCTGGAGCCCAAGAGGGAGATGACAAAGCTG 127  
QY 1769 CACCCAG 1775  
DB 126 GCGGCGG 120

Search completed: May 25, 2005, 16:38:26  
Job time : 0.872041 secs

GenCore version 5.1.6  
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OM nucleic - nucleic search, using sw model

Run on: May 25, 2005, 16:38:25 ; Search time 0.127959 Seconds  
(without alignments)  
1.822 Million cell updates/sec

Title: US-10-005-337A-2 1715-2060  
Perfect score: 346  
Sequence: 1 gcaatgtcaacagacagctg.....cgacagaaaaacatacaaga 346

Scoring table: IDENTITY\_NUC  
Gapop 60.0 , Gapext 60.0

Searched: 1 seqs, 337 residues

Total number of hits satisfying chosen parameters: 2

Minimum DB seq length: 0  
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

Database : new.seq:\*

Pred. No. is the number of results predicted by chance to have a  
score greater than or equal to the score of the result being printed,  
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	120.8	34.9	337	1	QUERY_1 Entered [bobryen
2	12.8	3.7	337	1	QUERY_1 Entered [bobryen

ALIGNMENTS

## RESULT 1

QUERY 1

Q0001\_1  
; Entered (bobryen 25-May-05 16:13)

QUERY 1

Query Match	34.9%	Score 120.8	DB 1	Length 337
Best Local Similarity	74.5%	Pred. No. 0		
Matches 152	Conservative 0	Mismatches 52	Indels 0	Gaps 0
Qy	138	TCGCTCCCTCTTCAGCTTCCAGACACTGAGTCTGGAATGAAATTCAGCTGCCTCTGA	197	
Db	134	TCATCTCCCTCTTGGGCTTCCAGACACTAAGTCTGGAATGAAATTCACCTGCCTCTGA	193	
Qy	198	GTTGGCTCCTAATGGGGGGCGGAGTGTTACTTGGTTCAGGTTGGAAGATTATCTCAC	257	
Db	194	ATTGGCCACTGGTGGGGGCGAGGGGTGTGACTTTGGCTTCCAGGCTGGAAGATTATCTCAC	253	
Qy	258	CCGSCCCACGCTATATAAGCTGACCGGTGTGGAGGGGCCACAGCAGGGCCAACTCCAGGGA	317	
Db	254	CCAGCCCTACGTATATAACGGGCTGGTGTGGAGGGGCTCCACAGGGCCAGTTCACGGGGT	313	
Qy	318	TTCTTTCACGACAGAAAAACATA	341	
Db	314	TCATCCACAAGAGAGAAAAACATA	337	

## RESULT 2

RESULT 2  
QUERY 1/c

QUEST\_1/C  
; Entered [bobryen 25-May-05 16:13]

QUERY 1

Query Match	3.7%	Score 12.8;	DB 1;	Length 337;
Best Local Similarity	51.8%;	Pred. No. 0;		
Matches	29;	Conservative	0; Mismatches	27; Indels
			0; Gaps	0;
QY	85	TGGCCCTCTCACATTTTCTTCCTGATTCACATATTCACAGGGTTAGTCTTCCTCC	140	
Db	294	TGGAGCCCTCTCCACACAGCCCGTTATATAGCTAGGCTGGGTGAGATAATCTTCC	239	

Search completed: May 25, 2005, 16:38:26  
Job time : 0.127959 secs

GenCore version 5.1.6  
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OM nucleic - nucleic search, using sw model

Run on: May 25, 2005, 16:39:04 ; Search time 0.001 Seconds  
(without alignments)  
1589.292 Million cell updates/sec

Title: US-10-005-337A-1-COPY  
Perfect score: 2358  
Sequence: 1 ggaatccttcatgtttaaca.....cagtgaggccaccatgg 2358

Scoring table: IDENTITY\_NUC  
Gapop 0.5 , Gapext 60.0

Searched: 1 seqs, 337 residues

Total number of hits satisfying chosen parameters: 2

Minimum DB seq length: 0  
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

Database : new.seq:\*

Pred. No. is the number of results predicted by chance to have a  
score greater than or equal to the score of the result being printed,  
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	337	14.3	337	1	QUERY_1 Entered [bobryen
2	17.4	0.7	337	1	QUERY_1 Entered [bobryen

ALIGNMENTS

RESULT 1					
QUERY_1					
; Entered [bobryen 25-May-05 16:13]					
QUERY_1					
Query Match 14.3%; Score 337; DB 1; Length 337;					
Best Local Similarity 100.0%; Pred. No. 0;					
Matches 337; Conservative 0; Mismatches 0; Indels 0; Gaps 0;					
QY	1972	GCAATATTAAACAGGACAGTGTCCCTGGCTTCCGATAGCTGGATGACTCGCATTTGCTG 2031			
DB	1	GCNATATTAAACAGGACAGTGTCCCTGGCTTCCGATAGCTGGATGACTCGCATTTGCTG 60			
QY	2032	AGCGGTGTGGTCACTGCCAAAGGAATGACCTCTCAATTTCTTCTGATTCGCATACGC 2091			
DB	61	AGCGGTGTGGTCACTGCCAAAGGAATGACCTCTCAATTTCTTCTGATTCGCATACGC 120			
QY	2092	CGCGGCAGCTTGTCACTCTCCCTTTGGCTTCCGACACTAAGTCTGGAATGAATTT 2151			
DB	121	CGCGGCAGCTTGTCACTCTCCCTTTGGCTTCCGACACTAAGTCTGGAATGAATTT 180			
QY	2152	CACTTCCTCTGTAATTTGGCCACTGTGGGGCAGGGGTGTGACTTGGCTTCCAGGCTGG 2211			
DB	181	CACTTCCTCTGTAATTTGGCCACTGTGGGGCAGGGGTGTGACTTGGCTTCCAGGCTGG 240			
QY	2212	AAGATTATCTACCCAGCCCTAGCTATATAACGGGCTGGTGGAGGGGCTCCACAGGCG 2271			

Db	241	AAGATTATCTACCCAGCCCTAGCTATATAACGGGCTGGTGGAGGGGCTCCACAGGCG 300			
QY	2272	CAGTTCCAGGGGTTCATCCACAAGAGAGAAAAACATA 2308			
Db	301	CAGTTCCAGGGGTTCATCCACAAGAGAGAAAAACATA 337			

RESULT 2  
QUERY\_1/c  
; Entered [bobryen 25-May-05 16:13]  
QUERY\_1

Query Match 0.7%; Score 17.4; DB 1; Length 337;  
Best Local Similarity 53.7%; Pred. No. 0;  
Matches 36; Conservative 0; Mismatches 31; Indels 0; Gaps 0;

QY	1709	CAGGGCCATTTTAGTGGCAGACATCACTCCAGAGATTCCAAACAGATAGAGACAAAGTGG 1768			
Db	186	CAGGTGAATTTTCATTCAGACTTAGTGTCTGGGAAGCCCAAGAGGGAGATGACAAGCTG 127			
QY	1769	CACCCAG 1775			
Db	126	GCCGCGG 120			

Search completed: May 25, 2005, 16:39:05  
Job time : 1'secs

GenCore version 5.1.6  
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OM nucleic - nucleic search, using sw model

Run on: May 25, 2005, 16:39:04 ; Search time 0.001 Seconds  
(without alignments)  
233.204 Million cell updates/sec

Title: US-10-005-337A-2 1715-2060  
Perfect score: 346  
Sequence: 1 gcaatgtcaacagacagctg.....cgacagaaaaacatacaaga 346

Scoring table: IDENTITY\_NUC  
Gapop 0.5 , Gapext 60.0

Searched: 1 seqs, 337 residues

Total number of hits satisfying chosen parameters: 2

Minimum DB seq length: 0  
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

Database : new.seq:\*

Pred. No. is the number of results predicted by chance to have a  
score greater than or equal to the score of the result being printed,  
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	120.8	34.9	337	1	QUERY_1 Entered [bobryen
2	12.8	3.7	337	1	QUERY_1 Entered [bobryen

ALIGNMENTS

```

RESULT 2
QUERY_1/c
; Entered [bobyren 25-May-05 16:13]
QUERY_1

Query Match          3.7%  Score 12.8;  DB 1;  Length 337;
Best Local Similarity 51.8%;  Pred. No. 0;
Matches 29;  Conservative 0;  Mismatches 27;  Indels 0;  Gaps 0;

Qy      85  TGGCCCTCTCACATTTCTTCTCGATTCCACATATTCACAGGGTTAGCTTCTCTCC 140
      |||  |||  |||  |||  |||  |||  |||  |||  |||  |||  |||  |||  |||  |||  |||
Db      294  TGGAGCCCTCTCCACACAGCCCGCTTATATAGCTAGGCTGGGTGACAGATAATCTTCC 239
      |||  |||  |||  |||  |||  |||  |||  |||  |||  |||  |||  |||  |||  |||

```

Search completed: May 25, 2005, 16:39:05  
Job time : 0.001 secs